
HANCOCK COUNTY

(Hancock County Water Service Area Map)

- Estimated 1999 population of 9,200--75% on public water
- Estimated 2020 population of 12,200--75% on public water
- 210 miles of water lines, with plans for 3 additional miles
- Estimated funding needs for public water 2000-2005: \$4,489,000
- Estimated funding needs for public water 2006-2020: \$30,000

Hancock County had an estimated population of 9,247 (3,588 households) in 1999 with a projected population of 12,200 (5,200 households) in 2020. Public water is provided to about 75 percent of the county's residents. In areas of the county not served by public water, about 4 of 5 households rely on private domestic wells and 1 of 5 households rely on other sources. About 16 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
HANCOCK								-
Hawesville				54		200	1,185	1,439
Lewisport	2	6	50			3,000		3,050
TOTAL	2	6	50	54		3,200	1,185	4,489

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
HANCOCK								-
Lewisport	1	10	30			.		30
TOTAL	1	10	30	-		-	-	30

PUBLIC WATER SYSTEMS

The residents of Hancock County are presently served by 5 public or semi-public water systems: 2 municipalities, Hawesville Water Works and Lewisport Municipal Water Works; and 3 non-community systems. In addition, the East Daviess Water District serves 931 residents of the county.

WATER SERVICE AREAS

HANCOCK COUNTY

Kentucky

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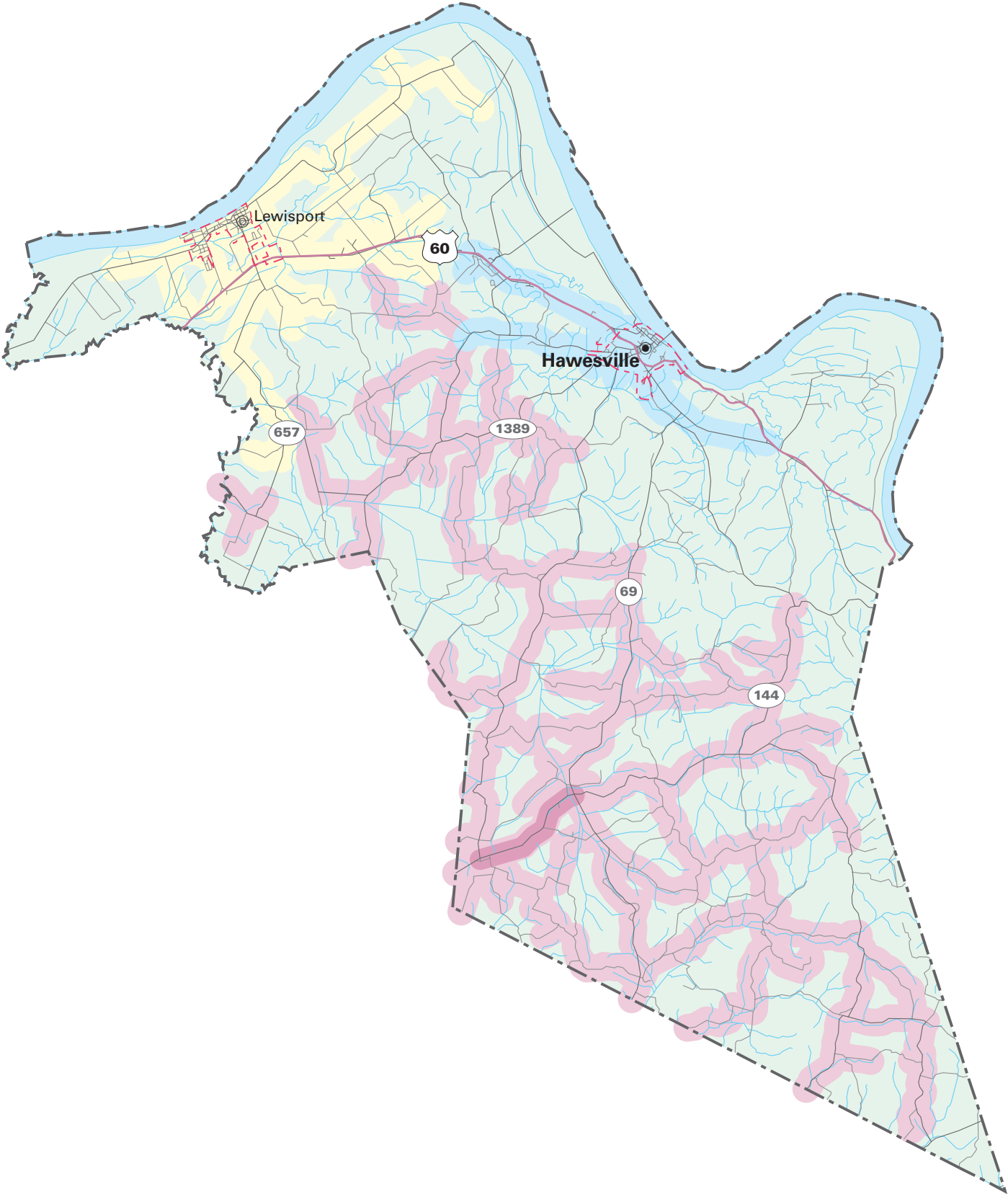
Bob Arnold, Chairman
Lawrence Wetherby, Executive Director

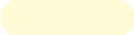
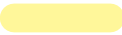
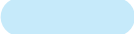



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WATER SERVICE STATUS BY OWNER		
EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		LEWISPORT MUNICIPAL WATER WORKS
		HAWESVILLE WATER WORKS
		EAST DAVIESS COUNTY WATER ASSOCIATION INCORPORATED

HAWESVILLE WATER WORKS

PWSID: 0460182
System Type:..... COMMUNITY
Owner Type:..... MUNICIPAL
Surface Source:
Purchase Source:
Well Source: Yes
Sells Water to:
Treatment Plant Capacity (MGD):..... 0.576
Percent Daily Average Production: 60.00
Total Tank Storage Capacity (gallons):..... 535,000.00
Total Service Connections: 930.00
Number of Employees:..... 7.00
Treatment Operator Class:..... 2D
Distribution Operator Class: 3A
Customer Rate for 1,000 Gallons:..... Not available
O/M costs 1997:..... Not available
O/M costs per Service Connection: Not available
Net Revenue 1997:..... Not available
Total Water Produced 1997 (gallons):..... Not available
Water Sold 1997 (gallons):..... Not available
Unaccounted-for Water 1997 (%): Not available

Hawesville Water Works draws its water from four wells located along the Ohio River. The district currently services 930 customers. There are two treatment plants with a total capacity of 576,000 MGD. On a daily average 344,000 gallons of finished water is produced. The district's storage capacity is 535,000 gallons stored by one elevated and three ground storage tanks.

The need for improvement within this system is increased storage capacity, increased pressure, and line improvements to eliminate water loss. The current plan is to phase out the oldest treatment plant by adding enough storage to serve the system.

LEWISPORT MUNICIPAL WATER WORKS

PWSID: 0460248
System Type:..... COMMUNITY
Owner Type:..... MUNICIPAL
Surface Source:
Purchase Source:
Well Source: Yes
Sells Water to:
Treatment Plant Capacity (MGD):..... 0.40
Percent Daily Average Production: 60.00
Total Tank Storage Capacity (gallons):..... 550,000.00
Total Service Connections: 917.00
Number of Employees:..... 6.00
Treatment Operator Class:..... 2D

Distribution Operator Class:	2A
Customer Rate for 1,000 Gallons:.....	2.80
O/M costs 1997:.....	Not available
O/M costs per Service Connection:.....	Not available
Net Revenue 1997:.....	Not available
Total Water Produced 1997 (gallons):.....	Not available
Water Sold 1997 (gallons):.....	Not available
Unaccounted-for Water 1997 (%):	Not available

Lewisport draws its water from three wells located along the Ohio River. The city draws a daily average of 290,000 gallons. The permitted withdraw amount is 325,000 gallons daily. The district currently services 917 customers (795 residential, 58 commercial, 2 industrial, 11 institutional). Treatment is accomplished by one treatment plant with a capacity of 400,000 MGD. On a daily average 261,200 gallons of finished water is produced. The district's storage capacity is 550,000 gallons stored by three elevated water tanks. Based on 5,000 gallons, the average monthly water bill is \$14.00. Lewisport Municipal Water Works operates with 6 full-time employees.

The need for improvement within this system is the construction of a new treatment plant. The current plant operates an average of 18 hours per day. There is also a need for increased storage and replacement of several lines.

OTHER SYSTEMS

COMMONWEALTH ALUMINUM

Commonwealth Aluminum is located in Hancock County. The system serves a population of 1,000 and has 1 service connection. The private, non-transient, non-community system has treatment capacity of 101,800 gallons per day. The water source is wells.

WILLAMETTE INDUSTRIES CORRUGATED MED

Willamette Ind. Corrugated Med is located in Hancock County. The system serves a population of 188 and has 1 service connection. The private, non-transient, non-community system has treatment capacity of 432,000 gallons per day. The water source is wells.

WILLAMETTE INDUSTRIES BLEACHED PULP

Willamette Ind Bleached Pulp is located in Hancock County. The system serves a population of 1,888 and has 1 service connection. The private, non-transient, non-

community system has treatment capacity of 331,200 gallons per day. The water source is wells.

PRIVATE DOMESTIC SYSTEMS

About 2,200 people in Hancock County rely on private domestic water systems: 1,750 on wells and 450 on other sources.

The alluvium along the Ohio River is the best source of groundwater in the county. In the northern edge of Hancock County nearly all drilled wells from depths of less than 150 feet in the alluvium of the Ohio River valley are adequate for domestic use. Most wells yield more than 50 gallons per minute (gpm) with some wells yielding as much as 750 gpm. In the northern three-quarters of Hancock County most wells from depths of less than 300 feet that penetrate sandstone are adequate for a domestic supply. In the southern quarter of the county only a few wells yield enough water for a domestic supply.

Generally, ground water is hard to very hard and iron and salt may be present in objectionable amounts. Often in deep wells, ground water becomes too mineralized to use.
